Author Index

Araki, T., see Kimata, K. 73
Araki, H., see Yoshioka, M. 205
Arimoto, H., see Gamoh, K. 227
Corio, R., see Lucarelli, C. 415
Dubin, P.L.
——, Kaplan, J.I., Tian, B.-S. and Mehta, M.
Size-exclusion chromatography dimension for rod-like macromolecules 37
Eftimiadi, C., see Lucarelli, C. 415
Fujimori, H.
——, Sasaki, T., Hibi, K., Senda, M. and Yoshioka, M.
Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 363
Fujita, T., see Iida, J. 503
Fujiwara, H., see Yamada, T. 475
Fukui, Y.
——, Ichida, A., Shibata, T. and Mori, K.
Optical resolution of racemic compounds on chiral stationary phases of modified cellulose 85
Fukuyama, T., see Nishi, H. 233, 245
Gamoh, K.
——, Sawamoto, H., Kakatsuto, S., Watabe, Y. and Arimoto, H.
Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 227
Gao, C. X.
—— and Krull, I. S.
Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography–ultraviolet/fluorescence detection 337
Garner, T. W.
—— and Yeung, E. S.
Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 639
Goto, M.
——, Miyahara, H. and Ishii, D.
Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 213
Gotoh, T., see Murakita, H. 527
Gu, G.
—— and Lim, C.K.
Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 183
Guo, Y.-Y., see Qian, X.-X. 257
Haerdi, W., see Veuthey, J.-L. 385
Haginaka, J.
——, Wakai, J., Yasuda, N., Yasuda, H. and Kimura, Y.
Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 59
Hayakawa, K.
——, Imaizumi, N., Ishikura, H., Minogawa, E., Takayama, N., Kobayashi, H. and Miyazaki, M.
Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 459
Hayashi, S., see Usui, H. 375
Hayashi, M., see Iida, J. 503
Hibi, K., see Fujimori, H. 363
——, see Higashidate, S. 577
——, see Kurosu, Y. 407
Higashidate, S.
——, Hibi, K., Senda, M., Kanda, S. and Imai, K.
Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 577
——, Yamauchi, Y. and Saito, M.
Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction–elution with supercritical carbon dioxide 295
Hiranuma, T.
——, Horigome, T. and Sugano, H.
Separation of membrane protein–sodium dodecyl sulphate complexes by high-performance liquid chromatography on hydroxyapatite 399
Hobo, T., see Qian, X.-X. 257
Homma, M., see Kouno, Y. 321
Honda, S., see Okuyama, T. 1
——, Suzuki, K., Kataoka, M., Makino, A. and Kakehi, K.
Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 653

Hori, S.
——, Ohtani-Senuma, K., Ohtani, S., Miyasaka, K. and Ishikawa, T.
Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 67
——, Ohtani, S., Miyasaka, K., Ishikawa, T. and Tanabe, H.
Seperation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 611
Horigome, T., see Hiranuma, T. 399
Hoshino, H.
——, Nakano, K. and Yotsuyanagi, T.
Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic–spectrophotometric system for trace metal determination 603
——, see Okuyama, T. 1
——, Takahashi, Y. and Suzuki, M.
Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 531
Hosoya, K., see Kimata, K. 73
Ichida, A., see Fukui, Y. 85
Iida, J.
——, Hayashi, M., Murata, T., Ono, M., Inoue, K. and Fujita, T.
Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography–mass spectrometry 503
Iida, K.
—— and Kajiwara, M.
Isolation of the insect metabolite trehalose by high-performance liquid chromatography (Note) 573
Imai, K., see Higashidate, S. 577
Imaizumi, N., see Hayakawa, K. 459
Inoue, K., see Iida, J. 503
Inoue, S.
—— and Ohtaki, N.
Binding capacities of hydroxyapatite for globular proteins 193
Isemura, T., see Terabe, S. 667
Ishii, D., see Goto, M. 213
Ishikawa, T., see Hori, S. 67, 611
——, see Yamakawa, Y. 563
Ishikura, C., see Kouno, Y. 321
Ishikura, H., see Hayakawa, K. 459
Isobe, T., see Matsuoka, K. 313
——, see Usui, H. 375
Jinno, K., see Okamoto, M. 43
Kadoya, T.
High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 521
Kajiwara, M., see Iida, K. 573
Kakatsuto, S., see Gamoh, K. 227
Kakehi, K., see Honda, S. 653
Kamada, M., see Konishi, T. 279
Kanda, S., see Higashidate, S. 577
Kaneuchi, F., see Yoshioka, M. 205
Kaplan, J. I., see Dubin, P. L. 37
Kasai, M., see Ohtani, T. 175
Kataoka, M., see Honda, S. 653
Kato, Y., see Matsuoka, K. 313
Kawahara, M.
——, Nakamura, H. and Nakajima, T.
Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 149
Kawai, S., see Tomita, M. 391
Kawasaki, T.
——, Niikura, M. and Kobayashi, Y.
Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 91
——, Niikura, M. and Kobayashi, Y.
Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 125
Kimata, K.
——, Tsuboi, R., Hosoya, K., Tanaka, N. and Araki, T.
Method for the preparation of internal-surface reversed-phase packing materials starting from alkylsilylated silica gels 73
Kimura, Y., see Haginaka, J. 59
Kira, R., see Ôi, N. 441
Kitahara, H., see Ôi, N. 441
Kobayashi, H., see Hayakawa, K. 459
Kobayashi, M., see Yoshioka, M. 205
Kobayashi, Y., see Kawasaki, T. 91, 125
——, see Tsuda T. 357
Konishi, T.
——, Kamada, M. and Nakamura, H.
Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 279
Kouno, Y.
——, Ishikura, C., Takahashi, N., Homma, M. and Oka, K.
Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 321
Krull, I. S., see Gao, C. X. 337
Kudoh, S.
—— and Nakamura, H.
Direct determination of the antihypertensive agent Cromakalim and its major metabolites in human urine by high-performance liquid chromatography 597

Kurosu, Y.
——, Sasaki, T., Takakuwa, T., Sakayanagi, N., Hibi, K. and Senda, M.
Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 407
Kuwajima, M., see Yamauchi, Y. 285
Kuwata, S., see Yamada, T. 475
Lee, H. K., see Li, S. F. Y. 515
——, see Ong, C. P. 509
Lee, M. L., see Li, S. F. Y. 515
Lee, Y. M.
——, Nakamura, H. and Nakajima, T.
Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 467
Li, S. F. Y., see Ong, C. P. 509
——, Ong, C. P., Lee, M. L. and Lee, H. K.
Supercritical fluid extraction and chromatography of steroids with Freon-22 515
Lim, C. K., see Gu, G. 183
Lin, C.-E.
——, Yang, Y.-H. and Yang, M.-H.
Novel silica-based strong anion exchanger for single-column ion chromatography 49
Liu, Y.
—— and Yu, S.
Copper(II)–iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 169
Lu, P., see Zhang, Y. 13
Lucarelli, C.
——, Radin, L., Corio, R. and Eftimiadi, C.
Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 415
McClure, T. D., see Nakano, K. 357
Maeda, M.
——, Shimada, S. and Tsuji, A.
High-performance liquid chromatography with a 3α-hydroxysteroid dehydrogenase post-column reactor and isoluminol–microperoxidase chemiluminescence detection 329
Maeda, N., see Usui, H. 375
Makino, A., see Honda, S. 653
Manabe, T., see Yamamoto, H. 659
Matsubayashi, K.
——, Yoshioka, M. and Tachizawa, H.
Simple method for determination of the cephalosporin DQ-2556 in biological fluids by high-performance liquid chromatography 547
Matsumiya, T., see Takeda, H. 265
Matsuo, M., see Nishi, H. 233, 245
Matsuoka, K.
——, Taoka, M., Isobe, T., Okuyama, T. and Kato, Y.
Automated high-resolution two-dimensional liquid chromatographic system for the rapid and sensitive separation of complex peptide mixtures 313
Mehta, M., see Dubin, P. L. 37
Merkus, H. G., see Mori, Y. 27
Minogawa, E., see Hayakawa, K. 459
Mitui, H., see Usui, H. 375
Miyahara, H., see Goto, M. 213
Miyasaka, K., see Hori, S. 67, 611
——, see Yamakawa, Y. 563
Miyazaki, T., see Yoshioka, M. 205
Miyazaki, M., see Hayakawa, K. 459
Miyazawa, T., see Yamada, T. 475
Mori, H., see Yamauchi, S. 305
Mori, K., see Fukui, Y. 85
Mori, Y.
——, Scarlett, B. and Merkus, H. G.
Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 27
Moriya, T., see Sugiyama, K. 555
Murakita, H.
—— and Gotoh, T.
o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 527
Muramatsu, Y., see Tsuda, T. 645
Murata, T., see Iida, J. 503
Nagashima, K., see Qian, X.-X. 257
Nakajima, T., see Kawahara, M. 149
——, see Lee, Y. M. 467
Nakamura, H., see Kawahara, M. 149
——, see Konishi, T. 279
——, see Kudoh, S. 597
——, see Lee, Y. M. 467
——, see Okuyama, T. 1
——, see Seta, K. 535
Nakano, K., see Hoshino, H. 603
——, see Yoshioka, M. 205
——, Yasaka, T., Schram, K. H., Reimer, M. L. J., McClure, T. D. Nakao, T. and Yamamoto, H.
Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5′-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 537
Nakao, T., see Nakano, K. 537
Niikura, M., see Kawasaki, T. 91, 125

Nishi, H.
——, Fukuyama, T. and Matsuo, M.
Separation and determination of aspoxicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 245
——, Fukuyama, T., Matsuo, M. and Terabe, S.
Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 233
Nishizawa, Y., see Usui, H. 375
Nobuhara, K., see Okamoto, M. 43
Noguchi, K., see Ohtani, T. 175
——, see Seki, T. 435
Nohta, H., see Umegae, Y. 495
Nonomura, S., see Yamada, T. 475
Nozaki, O.
—— and Ohba, Y.
Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 621
Ohba, Y., see Nozaki, O. 621
Ohkura, Y., see Umegae, Y. 495
Ohtaki, S., see Inoue, S. 193
Ohtani, S., see Hori, S. 67, 611
——, Tamura, Y., Kasai, M., Uchida, T., Yanagihara, Y. and Noguchi, K.
Characteristics of C_4- and C_8-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 175
Ohtani-Senuma, K., see Hori, S. 67
Ôi, N.
——, Kitahara, H. and Kira, R.
Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 441
Oka, K., see Kouno, Y. 321
Okamoto, M.
——, Yoshida, I., Utsumi, M., Nobuhara, K. and Jinno, K.
Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 43
Okuyama, T., see Matsuoka, K. 313
——, see Seta, K. 585
——, see Tomita, M. 391
——, see Usui, H. 375
——, see Yamakawa, Y. 563
——, see Yamamoto, H. 659
Ong, C. P.
——, Lee, H. K. and Li, S. F. Y.
Supercritical fluid extraction and chromatography of cholesterol in food samples 509
——, see Li, S. F. Y. 515
Ono, M., see Iida, J. 503
Otsuka, K.
—— and Terabe, S.
Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 221
Qian, X.-X.
——, Nagashima, K., Hobo, T., Guo, Y.-Y. and Yamaguchi, C.
High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 257
Radin, L., see Lucarelli, C. 415
Reimer, M. L. J., see Nakano, K. 537
Rokushika, S., see Yamamoto, F. M. 3
Saito, M., see Higashidate, S. 295
——, see Yamauchi, Y. 285
Saito, T., see Takeuchi, M. 629
Sakayanagi, N., see Kurosu, Y. 407
Sasaki, T., see Fujimori, H. 363
——, see Kurosu, Y. 407
Sawamoto, H., see Gamoh, K. 227
Scarlett, B., see Mori, Y. 27
Schram, K. H., see Nakano, K. 537
Seki, M., see Yoshioka, M. 205
Seki, T.
——, Yanagihara, Y. and Noguchi, K.
Determination of free catecholamines in human urine by direct injection to urine into a liquid chromatographic column-switching system with fluorimetric detection 435
Senda, M., see Fujimori, H. 363
——, see Higashidate, S. 577
——, see Kurosu, Y. 407
Seta, K.
——, Nakamura, H. and Okuyama, T.
Determination of α-tocopherol, free cholesterol, esterified cholesterols and traicylglycerols in human lipoproteins by high-performance liquid chromatography 585
Shibata, T., see Fukui, Y. 85
Shibuya, T., see Takeda, H. 265
Shimada, S., see Maeda, M. 329
Shiokawa, T., see Sugiyama, K. 555
Sugano, H., see Hiranuma, T. 399
Sugimoto, S.
——, Yamaguchi, K. and Yokoo, Y.
Isolation and characterization of recombinant eel growth hormone expressed in *Escherichia coli* 483
Sugiyama, K.
——, Shiokawa, T. and Moriya, T.
Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 555
Suzuki, K., see Honda, S. 653

Suzuki, M., see Hoshino, T. 531
Suzuki, Y., see Tani, K. 159
Tachizawa, H., see Matsubayashi, K. 547
Takahashi, N., see Kouno, Y. 321
Takahashi, Y., see Hoshino, T. 531
Takakuwa, T., see Kurosu, Y. 407
Takayama, N., see Hayakawa, K. 459
Takeda, H.
——, Matsumiya, T. and Shibuya, T.
Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 265
Takeuchi, M.
—— and Saito, T.
Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 629
Tamura, Y., see Ohtani, T. 175
Tanabe, H., see Hori, S. 611
Tanaka, N., see Kimata, K. 73
Tani, K.
—— and Suzuki, Y.
Effect of pore size on the surface excess isotherm of silica packings 159
Taoka, M., see Matsuoka, K. 313
Terabe, S.
—— and Isemura, T.
Effect of polymer ion concentration on migration velocities in ion-exchange electrokinetic chromatography 667
——, see Nishi, H. 233
——, see Otsuka, K. 221
Tian, B.-S., see Dubin, P. L. 37
Tomita, M.
——, Okuyama, T. and Kawai, S.
Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 391
Tsai, H.
—— and Weber, S. G.
Electrochemical detection of dipeptides and dipeptide amides 451
Tsuboi, R., see Kimata, K. 73
Tsuda, T.
—— and Kobayashi, Y.
Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 357
—— and Muramatsu, Y.
Electrochromatography with continuous sample introduction 645
Tsuji, A., see Maeda, M. 329
Uchida, T., see Ohtani, T. 175
Umegae, Y.
——, Nohta, H. and Ohkura, Y.
Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 495
Usui, H.
——, Takahashi, Y., Maeda, N., Mitui, H., Isobe, T., Okuyama, T., Nishizawa, Y. and Hayashi, S.
Purification of D_2 dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 375
Utsuki, T., see Yoshioka, M. 205
Utsumi, M., see Okamoto, M. 43
Veuthey, J.-L.
—— and Haerdi, W.
Separation of amphetamines by supercritical fluid chromatography 385
Wakai, J., see Haginaka, J. 59
Watabe, Y., see Gamoh, K. 227
Weber, S. G., see Tsai, H. 451
Yaginuma, T., see Yoshioka, M. 205
Yamada, T.
——, Nonomura, S., Fujiwara, H., Miyazawa, T. and Kuwata, S.
Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α- and β-amino acids 475
Yamaguchi, C., see Qian, X.-X. 257
Yamaguchi, K., see Sugimoto, S. 483
Yamakawa, Y.
——, Miyasaka, K., Ishikawa, T., Yamada, Y. and Okuyama, T.
High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 563
Yamamoto, F. M.
—— and Rokushika, S.
Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 3
Yamamoto, H.
——, Manabe, T. and Okuyama, T.
Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 659
——, see Nakano, K. 537

Yamauchi, S.
—— and Mori, H.
Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 305
Yamauchi, Y., see Higashidate, S. 295
——, Kuwajima, M. and Saito, M.
Sample introduction and elution method for preparative supercritical fluid chromatography 285
Yanagihara, Y., see Ohtani, T. 175
——, see Seki, T. 435
Yang, M.-H., see Lin, C.-E. 49
Yang, Y.-H., see Lin, C.-E. 49
Yasaka, T., see Nakano, K. 537
Yasuda, H., see Haginaka, J. 59
Yasuda, N., see Haginaka, J. 59
Yeung, E. S., see Garner, T. W. 639
Yokoo, Y., see Sugimoto, S. 483
Yoshida, I., see Okamoto, M. 43
Yoshioka, M.
——, Araki, H., Kobayashi, M., Kaneuchi, F., Seki, M., Miyazaki, T., Utsuki, T., Yaginuma, T. and Nakano, M.
Porous glass sheets for use in thin-layer chromatography 205
——, see Fujimori, H. 363
——, see Matsubayashi, K. 547
Yotsuyanagi, T., see Hoshino, H. 603
Yu, S., see Liu, Y. 169
Zhang, Y.
——, Zou, H. and Lu, P.
Advances in expert systems for high-performance liquid chromatography 13
Zou, H., see Zhang, Y. 13